Instruction Manual
Manuel d'utilisation
Manual de instrucciones

CE42LM4WPN-NA

LCD Monitor
Moniteur d'affichage à cristaux liquides
Monitor de LCD

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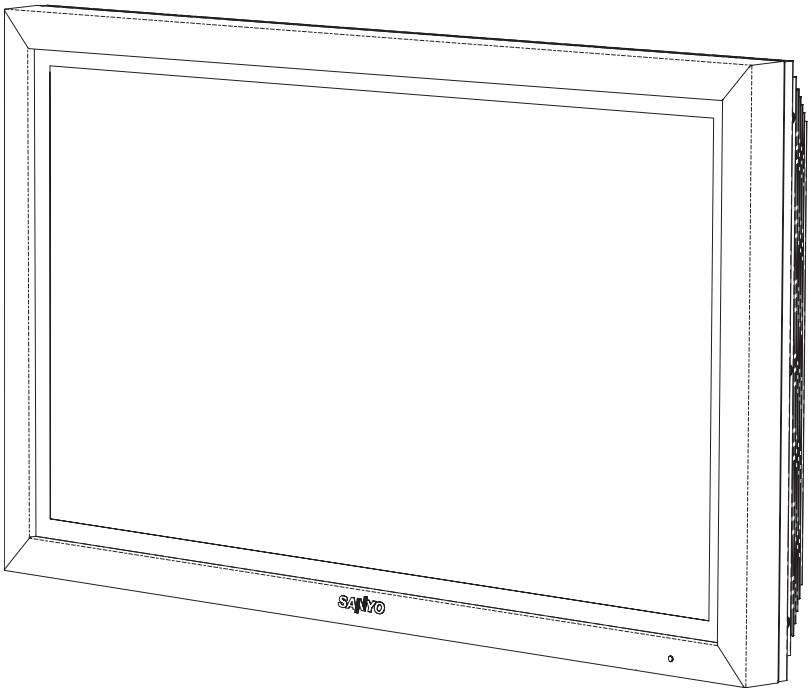


Please read this Instruction book before using your LCD monitor. We wish you many hours of pleasure from your new LCD monitor.

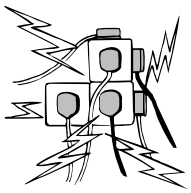
Veuillez lire attentivement ce mode d'emploi avant d'utiliser votre moniteur. Nous espérons que votre nouveau dispositif d'affichage vous procurera de nombreux instants de bonheur.

Lea este manual de instrucciones antes de usar su nuevo monitor. Deseamos que disfrute de él muchas horas.

SAFETY PRECAUTIONS & SERVICING

CAUTION: Please read and retain for your safety. This unit has been engineered and manufactured to assure your personal safety, but improper use can result in potential electric shock or fire hazards. In order not to defeat the safeguards incorporated in this receiver observe the following basic rules for its installation, use and servicing.

Installation



Do not allow anything to rest on the power cord. **Do not** locate this LCD monitor where the cord will be damaged by people walking on it.

Do not overload wall outlets and extension cords as this can result in fire or electric shock.

Do not place this LCD monitor near any heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

Do not place your LCD monitor on an unstable stand, shelf or table. Serious injury to an individual, and damage to the LCD monitor may result if it should fall. Your sales person can recommend approved wall mounting kit. A special wall mounting kit is available for this model.

This LCD monitor should be operated only from the type of power source indicated on the monitor or as indicated in the Operating Instructions. If you are not sure of the type of power supply, consult your sales person or your local power company

For added protection it is strongly recommended that this LCD monitor is supplied via a RCCB. Safety unit.

WARNING: To prevent injury LCD monitor must be securely attached to the wall in accordance with the manufacturers installation instructions.
This monitor is tested to **IP56 (Category 2)** standard rating and may be positioned in an outdoor environment exposed to rain.

Use

This monitor is **not** protected against temporary or continuous immersion in liquid.

Do not use immediately after moving the LCD monitor from a low temperature to a high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards. Before cleaning, unplug the monitor from the wall socket.

Do not mount near an open flame source. Open flames must never be used near this LCD monitor.

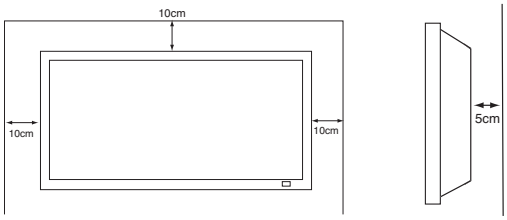
This LCD monitor should not be built in or enclosed in any way, heat build up will reduce the life of the monitor.

Do not apply liquid cleaners or aerosol cleaners directly onto the LCD monitor. Use a damp cloth for cleaning.

Always mount using recommended and substantial fixtures and fittings.
The rear finned section around the cabinet functions as a heat sink, removing heat away from the monitor. The external surface of the cabinet (finned area) must not be covered or the airflow resricted in anyway by enclosing the LCD monitor

The operating temperature range of this monitor can be used at **30°F ~ 115°F**. It is not recommended to install the screen in direct sunlight without adequate shading, as this will cause the temperature of the panel to rise above the maximum specified.
Doing so may cause a black shadow to appear on the screen, which will disappear when the screen temperature returns to within the specification. This “of course” does not produce any harmful effect on the lifetime of the panel.

This LCD monitor should have a minimum distance of 5cm away from the wall and the monitor should have 10cm distance around the top and sides



Servicing

Your LCD monitor is fully transistorised and does not contain any user serviceable components.

You must not remove the rear cover of the LCD monitor by yourself. The apparatus is working with high voltages and could damage objects or even endanger people. Leave all required repair and service jobs to an authorised service technician. He will exclusively use such spare parts that are complying with the same safety standards as applicable to the original parts. The use of original spare parts can prevent fire, shock and other hazards.

Unplug the LCD monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- If the power cord or plug is damaged.
- If the has been dropped or the cabinet has been damaged.
- If the LCD monitor exhibits a distinct change in performance.
- If the LCD monitor does not operate normally by following the operating instructions.

Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage. This will often require extensive work by a qualified technician to restore the LCD monitor to normal operation.

COMPLIANCE & END USER LICENSE

Decloration of Conformity

Model Number	: CE42LM4WPN-NA
Trade name	: Sanyo
Responsible party	:SANYO FISHER COMPANY
Address	: 21605 Plummer Street, Chatsworth, California 91311
Telephone	:(818) 998-7322

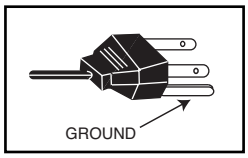
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interence that may cause undesired operation.

AC Power Cord Requirement

The AC Power Cord supplied with this LCD monitor meets the requirement for use in the country in which you purchase it.

AC Power Cord for the United States and Canada:



AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).
AC Power Cord has a grounding-type AC line plug. This is a safety feature to make sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.
THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE

THIS MONITOR UNIT IS SEALED TO IP 56 STANDARD. THE INTEGRITY OF THE OF THE ENCLOSURE MUST NOT BE TAMPERED WITH OR BREACHED.

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   - reverse-engineer, decompile or disassemble the Software;
   - make the Software (or any part of it) available, or permit its redistribution, for use with any computer hardware other than the Product; or rent, lease, gift, loan, sell, distribute or transfer possession of the whole or any part of the Software.

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This license is effective until terminated. This license will terminate automatically without notice if you fail to comply with any of its provisions.

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1. The Software is (to the extent permitted by law), supplied 'as is' and SANYO and its suppliers expressly exclude all warranties, express or implied, including (but not limited to) warranties of satisfactory quality, fitness for purpose and non-infringement (save to the extent that the same are not capable of exclusion by law).

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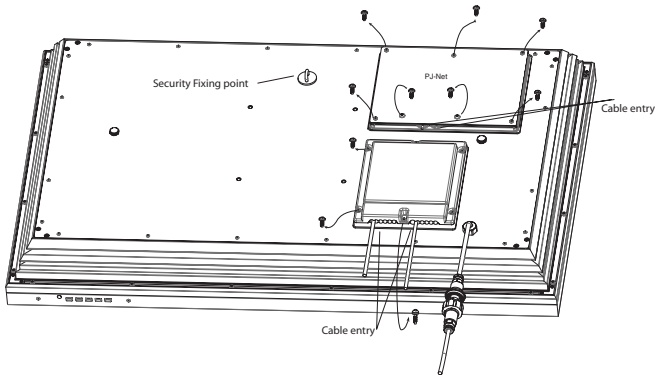
2. The above terms and conditions supersede any prior agreement, oral or written, between you and SANYO relating to the Software.

INSTALLATION

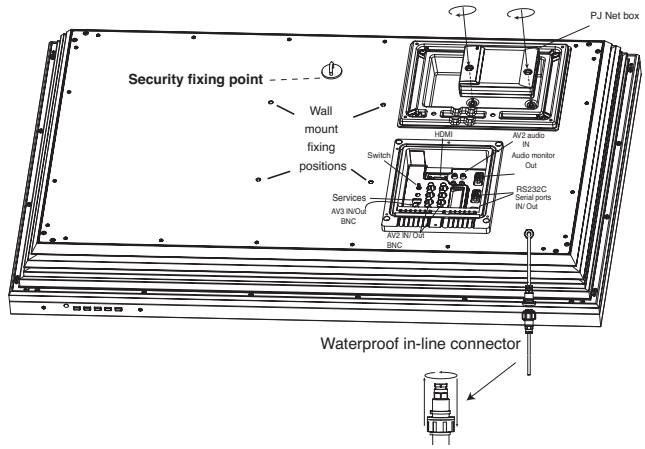
Step : 1 Connections (Essential)

■ **REMOVE TERMINAL COVER AS INDICATED BELOW.**



■ **CONNECT THE DISPLAY UNIT TO AERIAL, VGA. BNC.AND PERITEL SCART CONNECTOR AS BELOW.**

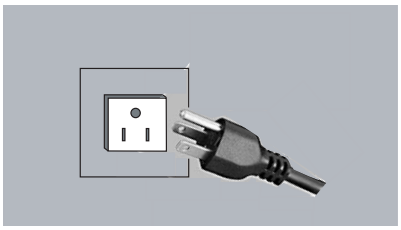
■ **TERMINAL COVER MUST BE REPLACED WITH CABLE EXITS AS INDICATED IN THE SKETCH ABOVE.**



■ Connect the LCD monitor to VGA, and Scart connector as required.

1. Connect the waterproof in-line power connector to the connector attached to the LCD monitor as shown above.

2. Connect the correct power cord of the LCD monitor to a wall outlet.



✎ As this product does not have a power On/Off switch, please ensure your mains plug is easily accessible.

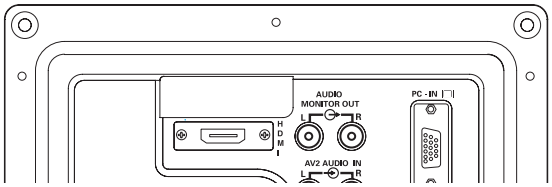
✎ The LCD monitor is prepared for a power voltage AC100 ~240V, 60Hz. To completely switch off the mains, or when the LCD monitor is not to be used for an extended period of time, it is advisable to disconnect the power cord from the power outlet or disconnect thepower coupler.

3. Warning: To prevent injury, the unit **must** be securely attached to the wall in accordance with the installation instructions.

WARNING! High voltages are used in the operation of this set. Refer service to qualified service personnel.

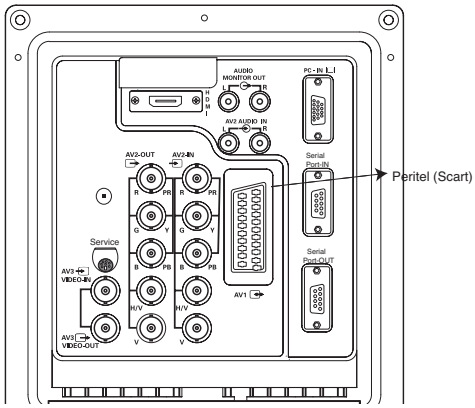
1.■ HDMI (High Definition Multimedia Interface)

This monitor has an HDMI connector. When connected to the HDMI source and HDMI is selected using the remote control, there is a short time period before the picture appears at a much higher resolution. This connection is located at the back of the monitor next to the aerial socket.



2. Y,Pb,Pr connection (AV2)

This LCD monitor has a choice of Y, Pb, Pr or RGB , H/V connections You can connect your DVD player to the Y, Pb, Pr terminals instead of using a scart lead. This can support high definition in analogue component form. RGB, H/V can be used as a PC input via the BNC terminal.



3. PC connection

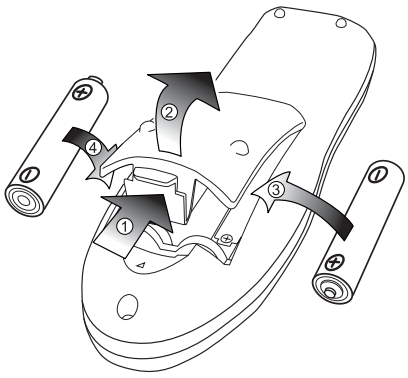
This display unit has a PC connector. You can connect a PC to the Display unit and use it as a monitor (see page 7).

To switch between TV, AV1, RGB, AV2 RGB H/V or Y, Pb, Pr, AV3, HDMI or PC mode press the TV/AV switch on your remote control repeatedly or press and hold the the TV/AV button for a few seconds and selection menu will appear on screen use the ▲ or ▼ buttons to select the correct mode.

4. RS232C IN/OUT: Is an input for external commands to control the monitor (see page 8). Use the switch to change between AV/ RS232/ PJ net

5. PJ/PD Net IN/OUT: Has the ability for PJ-NET(or PD-net) to be connected to control the monitor using a network (switch is in).

Step : 2 Remote control battery installation

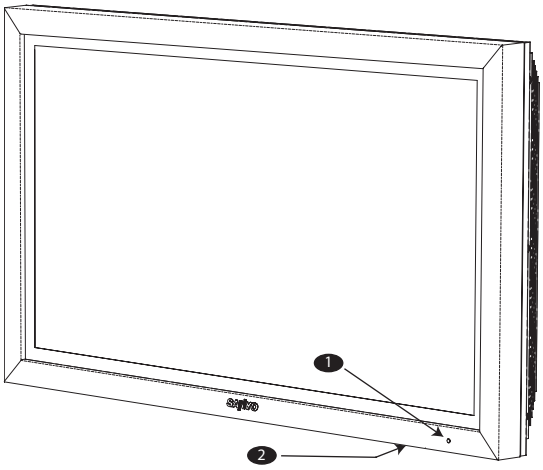


WARNING!
This remote control is not waterproof

Install two "AA" 1.5 volt batteries so that the "+" and "-" marks on the batteries match the "+" and "-" marks inside the unit into the remote control handset.

INSTALLATION

Terminals



1. The LCD display will have a Standby light to show there is power.

2. Control buttons (bottom edge of cabinet)

Menu/F button: rotate between contrast, Brightness, color and sharpness

Input/OK button: Switch between TV, AV1, RGB, AV2, AV3, HDMI and PC mode.

▲ ▼ buttons: adjust channels up and down

⏻ button: To switch from display to standby mode (to switch off completely disconnect the monitor from the power supply)

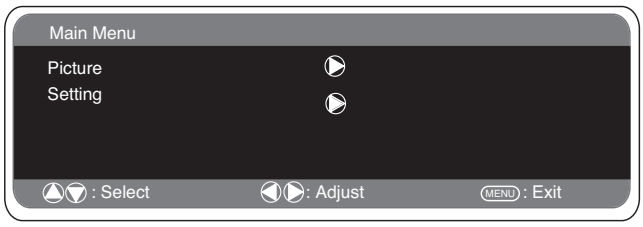
Menu Operation

Many of your monitors functions are controlled through the menu function.

MENU

- Picture
  - Brightness
  - Contrast
  - Color
  - Sharpness
  - Preset — Personal / Dynamic / Standard / Eco
  - Noise Reduction — Mid / Max / Auto / OFF / Min
  - Dyn. Skin Tone — ON / OFF
  - Text Brightness — Max / Mid / Min
- Setting
  - Child lock — OFF / ON
  - Timer — Off Time — ON / OFF
  - AV2 setting — RGB, H/V / Y Pb Pr

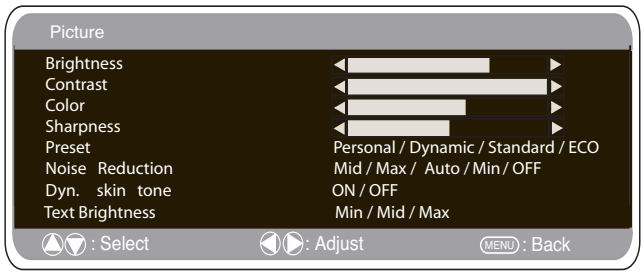
During menu operation, the bottom of the screen will show which controls can be used.
Press the MENU button to **enter** the main menu.



A sub menu is selected using the ▲ or ▼ **button** and pressing the ▶ **button** when the required sub menu is highlighted.

When you have set a Sub menu you can press the **MENU button** to exit, then the **MENU button** again to exit the main menu.

Picture menu



1. Press the **MENU button.** Select **Picture** using the ▲ or ▼ **button.** Press the ▶ **button** to enter.

Set the picture settings for your "**personal"** preference.

2. Use the ▲ or ▼ **button** to select e.g. Brightness and the ◀ or ▶ **button** to adjust levels.

3. Preset : You can select either your **"Personal"** settings, or Dynamic, Standard or Eco settings.

4. Noise Reduction: May be used to reduce any local picture 'noise' (granular appearance) being experienced by Using ◀ or ▶ to select between Mid / High / Auto / Low / OFF.

5. Dynamic skin tone: May be used to enhance skin tone by using ◀ or ▶ to select between On / Off.

Tint : is only available if NTSC equipment is connected.

6. Text Brightness: May be adjusted by Using ◀ or ▶ button to select between Min / Mid / Max.

To exit press the **MENU** button.

✎ Your personal settings are automatically saved when you exit the menu.

REMOTE CONTROL

TV/AV switch
To switch from TV, AV1, RGB, AV2, AV3, PC or HDMI mode press repeatedly. Press and hold in a few seconds, an AV selection bar appears. Select the mode you require using the ▲▼ keys

Screen mode selector
To select the screen mode, Auto, Natural, Full Zoom 16:9, Title 16:9,Zoom 14:9,title 14:9 or Normal. Refer to page 11.

Direct program selector
For direct access to programmes
Using **(0-9) numeric buttons** in analogue and digital. For selection of programme position 10 - 99, for example 23, first press **-/-- button** and press **2** and **3 numeric buttons.**

MENU
To enter and exit sub menus.

Cursors up/down
To adjust the menu levels .

Picture mode selection
Press the →·← button repeatedly to select the following picture modes.
Personal - Personal preference mode.
Dynamic - Suitable for brightly lit rooms.
Standard - Normal viewing mode.
Eco - Suitable for dimly lit rooms and gives a cinema - like effect.

F/OK
To save the setting in the menu.

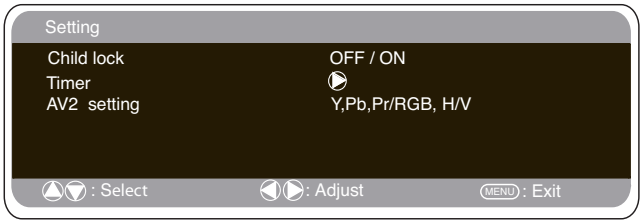
Standby
To switch the TV on and off. Also see page 8

Program information call
To display the program information.
You can also select colour systems in AV mode as follows
AUTO -> PAL -> SECAM -> NTSC3.58

Program up and down
To select the next programme number or previous programme number.

MENU OPERATION/ PC OPERATION

Setting menu



■ Child lock

You can prevent unwanted operation on the LCD monitor via the buttons on the bottom edge of the monitor.

1. Press the **MENU button.** Select **Setting** using the ▲ or ▼ **button.** Press the ▶ **button** to enter.

2. Select **Child lock** using the ▲ or ▼ **button**.

3. Set the Child lock to **Off** or **On** by pressing the ◀ or ▶ **button**.

4. Press the **MENU button** to exit.

■ AV2 setting

In setting menu, to select AV2 press the ▼ **button** and set to Y,Pb,Pr or RGB, H/V depending on your external equipment.

1. Press the **MENU button.** Select **Setting** using the ▲ or ▼ **button** press the ▶ **button** to enter.

2. Select **AV2 setting** using the ▲ or ▼ **button**.

3. Press the ◀ or ▶ **button** to select which Y,Pb,Pr or RGB, H/V.

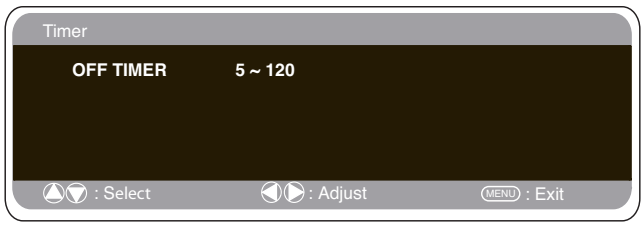
4. Press the **MENU button** to exit, this automatically stores your changes.

4. Press the **MENU button** to exit.

■ Off-timer setting

The Off timer will switch the monitor into the standby mode when the selected time has elapsed.

1. Press the **MENU button.** Select **Setting** using the ▲ or ▼ **button** press the ▶ **button** to enter.
2. Select **OFF Timer** using the ▲ or ▼ **button**.



3. Press the ◀ or ▶ **button** to change time.

The time changes in 5 minute steps.The maximum time is 120 minutes.

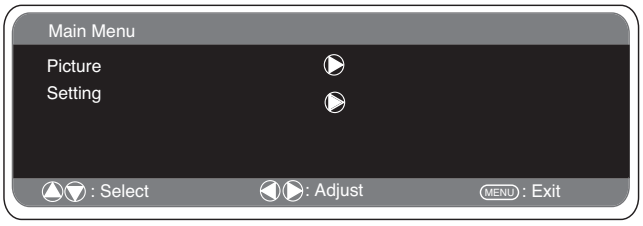
If you have set the off timer, a display appears in the corner of the screen.

✎ *If the TV set is switched off by the **standby button** ⏻ on the remote control or by the standby switch ⏻ on the top of the TV set ,the timer settings will be cancelled.*

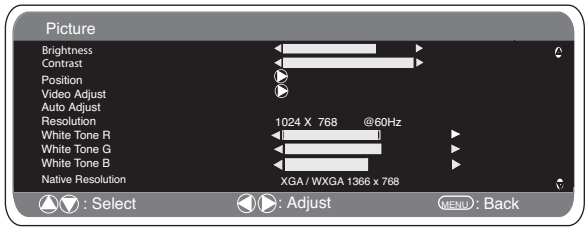
PC menu settings

Connect your PC to the connector on the left side terminal of the set. Once connected, select PC mode via the **TV/⊏** button on your remote control. The set will become a monitor for the PC.

By pressing the **MENU** button on the remote control, a menu window will appear on screen, this allows the settings to be adjusted.



To adjust the Picture settings select picture using the ▲ or ▼ buttons on the remote, then the ▶ button to enter the following picture settings menu.
Press the ◀ or ▶ **buttons** to adjust the Picture brightness and the same to adjust the contrast of the picture.

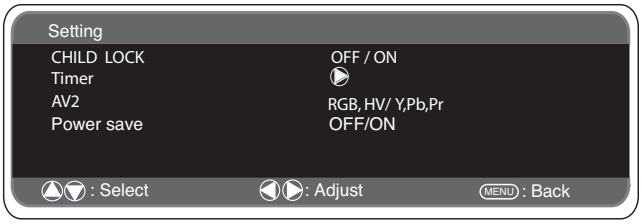


Picture position changes the picture horizontally or vertically, this is done by using the ◀ or ▶ **buttons** on the remote control.
Video adjust changes the Phase and the clock of the screen. If the picture is blurred or grainy, this function will adjust it to a clearer picture.
Auto Adjust will automatically adjust the picture by using the ▶ button. This will change all the above settings automatically. Auto adjust can also be achieved by pressing the [Y][?] button on the remote control
Resolution displays the current resolution of the picture. This is just for information and cannot be adjusted.

Using the ◀ or ▶ **buttons** it is possible to adjust the tone of the screen using the White tone **Red (R) / Green (G)/ Blue (B**). This will adjust the picture to show more of the chosen color. For example if red is selected you can adjust the red in the picture to increase or decrease using the ◀ or ▶ **buttons**

Native Resolution is used when the PC can output WXGA 1366 x 768. The setting on your Monitor set can be changed to receive XGA/WXGA signal using the ◀ or ▶ buttons . Once the signal has been selected, save the settings by switching the monitor off then on.

To select the Settings menu press the menu button on your remote and using the ▲ or ▼ buttons to select Settings. The ▶ button will enter the settings menu.



Child lock/ Timer and AV2 settings are the same as in the TV mode (pg 7)
Power save, if turned ON, will turn the LCD monitor into Powersave mode after 1 minute if no signal is detected, the LED light will turn blue to indicate stand by. The TV will automatically turn on when a signal has been detected. Use ◀ or ▶ **buttons** to select ON or OFF.

RS232 OPERATION & OTHER FEATURES

RS232C settings

The TV control commands are used to control a TV through RS-232C from a computer.

ITEM	SPECIFICATION
Synchronous system	Asynchronous
Transmission Speed	9600 / 19200
Data Length	8 bit
Parity	None
Stop Bit	1
Flow Control	None

Serial Interface Specification

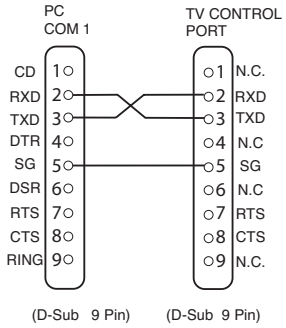
Transfer Specification

1. Transmission Speed: initial setting value is 19200
2. Transmission speed can be changed by hotel mode.

Connection

The Designated RS-232C serial cable that is provided with the LCD monitor must be used for a connection to a computer and LCD monitor

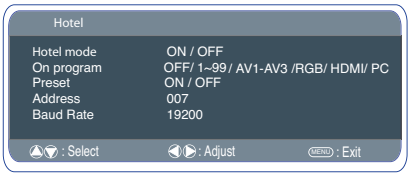
Notes for communication



The TV command is defined by one command/one line that starts with “C” and ends with carriage return (0x0D)
There are two types of commands:
Functional Execution Command e.g. Co5[CR] (table on page 12)
Status Read Commands e.g “CR0 [CR] (see table on page 12)

Setting the monitor address in RS232 mode

To Access hotel mode press the **green button** on the remote control and hold for 5 seconds. A new screen will appear.



Each monitor can have a specific Address, for example 007, which helps command that monitor individually and will not effect other monitors connected to a controlling PC.

Address format command

The addressing format command is used for operating multiple monitor sets from a single PC via the RS232C command line. If you set your monitor address to ‘000’, it will never respond to any addressing command from the PC.
If the address from the PC is ‘FFF’, all monitor sets will execute the command.
The Address format command is defined by one command, one line which starts with ‘A’ and ends with carriage return.(0 x0D)
The Monitor starts to decode when it receives a carriage return (0x0D).
An address is added at the top of a control command (same as a address command).

Example:

Functional execution command:
“A001C05” [CR] means address is 001 and the control command is C05.
Status read command
“A001CR0”[CR] means address is 001 and command is CR0.

The monitor can set its own address in the hotel option menu (above). The address range is 000 - 999, the default address will be 000.
The baud rate indicates the unit for transfer speed of data from the PC to the monitor sets.

Other functions

■ Switching into/from standby mode

The Standby mode is used for switching the LCD monitor off for short periods of time. In standby mode the monitor is switched off but is still receiving mains power.

- To turn the monitor into standby mode, press the ⏻ **button**. *The blue power indicator illuminates more brightly.*
- To turn the monitor ON from standby mode, press any of the following buttons: ⏻, **P▲**, **P▼** or **0-9 buttons**.

	If you find the power indicator flashing, disconnect power cord from the power outlet and contact our Service desk.
	This warning is a sign to let you know that the power protection function of this TV set is now operating.

■ Auto shut off

This monitor will automatically switch into the standby mode, 10 minutes after a signal is no longer received. The time until the set will switch off is displayed on the screen.

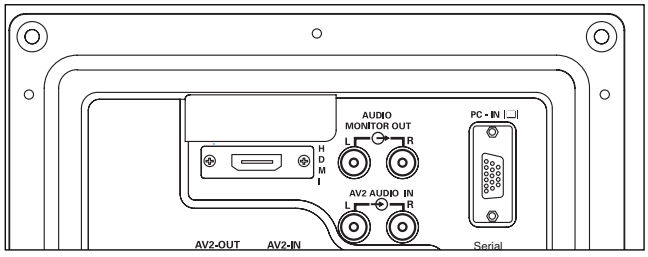
■ Sound system selection and Program information

Press the **button** to display the programme information, such as current programme number, station name, stereo status, sound system and remains, if the timer is set, for about 5 seconds.

S-1: B/G sound system
S-2: D/K sound system
S-3: I Sound system
S-4: France SECAM L/L’ system

■ Use of Audio Output Jacks

The audio monitor out sockets on the rear of the set provide a fixed level audio output for reproducing sound via your audio equipment.



Selecting of picture size

■ Screen options

Today there are various transmission formats with different size ratios, eg. 4:3 , 14:9, 16:9 and video formats such as letterbox.

■ Auto

It automatically switches to the optimum screen mode according to the WSS signal provided in the receiving signal source. If the signal does not have it, the monitor keeps current screen mode.

✐ This setting may cause the picture to change when a different format is received eg. when an advert is received.

✐ WSS (Wide screen signaling)
Some broadcasters transmit this signal and some VCR tapes have it included . The signal identifies the picture format ratio (16:9, 14:9, 4:3 etc.).

If WSS is not being received and you are not happy with your picture, this monitor provides you the option to change it with the following options.

Press the **WIDE button** repeatedly to select your desired setting.

✐ When in High Resolution (720p / 1080i) YPbPr or HDMI, the picture will remain fixed in 16:9 format 'Full size' and may not be changed.

■ Natural

4:3	14:9	16:9	Letterbox Video
Stretches the picture horizontally to fill the screen. The picture is more stretched at the edges.	The height is expanded to fill the whole screen.	The picture fills the screen and is proportionally correct.	The black bars top and bottom remain and the height is compressed to fit the picture area.

■ Zoom 14:9

4:3	14:9	16:9	Letterbox Video
The correct picture width is maintained but the top and bottom are cropped.	Zooms in slightly cropping the top and bottom.	Zooms in slightly cropping the top and bottom.	The black bars top and bottom are smaller and the picture height is compressed slightly.

■ Title - In 14:9

4:3	14:9	16:9	Letterbox Video
As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.	As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.	As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.	As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.

■ Zoom 16:9

4:3	14:9	16:9	Letterbox Video
The correct picture width is maintained but the top and bottom are cropped.	Zooms in slightly cropping the top and bottom.	Zooms in slightly cropping the top and bottom.	The black bars top and bottom are smaller and the picture height is compressed slightly.

■ Title - In 16:9

4:3	14:9	16:9	Letterbox Video
As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.	As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.	As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.	As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.

■ Full

4:3	14:9	16:9	Letterbox Video
The whole screen is filled stretching the width.	The whole screen is filled stretching the height slightly at the edges.	The whole screen is filled with the corrrect picture ratio.	The black bars top and bottom are present and the height is compressed.

■ Normal

4:3	14:9	16:9	Letterbox Video
The correct ratio is maintained with black bars on the left and right.	Black bars left and right, picture height is stretched.	Black bars left and right, picture height is stretched.	Black bars left, right, top and bottom.

Specification

Common specification

Power source 100~240V 60Hz

AV terminal

AV1: CENELEC Standard
Input: Composite video, RGB and audio-L/R
Output: TV-output with composite video and audio-L/R

AV2: BNC
Input: RGB, H and V / Y, Pb, Pr audio-L/R
Output: RGB, H and V / Y, Pb, Pr

AV3: BNC
Input: Composite video
Output: Composite video

Audio M.Out: CINCH L/R

HDMI Input : HDMI GROUP Standard
PC Input
Serial port: RS232C: INput/Output
Net Organiser: POA-LN01 (optional)
When ordering these products, give the Name and Type No. to the sales dealer.

CE42LM4WPN-NA

Contrast Ratio	800:1
Screen(inches/ cm) (viewing measured diagonally)	42"/ 107cm
Display Resolution	1366 X 768 (WXGA)
Viewing angles	H:178°, V:178°
Dimensions (WxHxDinch)	41.34" x 25.74" x 6.37"
(WxHxDmm)	1050mm x 654mm x 162mm
Weight	88.2Lbs/40Kg

Helpful hints

■ **NO PICTURE**
- Check if monitor is plugged in.
- Try a different channel, if OK, probably station trouble.

■ **POOR PICTURE,**
- Adjust BRIGHTNESS control.
- Adjust FINE TUNING control.
- Check aerial connections.

■ **NO COLOR, PICTURE OK**
- Adjust COLOR control.
- Adjust FINE TUNING control.
- Is the programme in color?

■ **WEAK PICTURE**
- Check aerial connections on back of set.
- Check aerial for broken wires.
- Re-orient aerial.

The following faults are not caused by the receiver:

"GHOSTS"
Reflections of signals from mountains or high buildings will cause multiple images, called "Ghosts". These abnormal conditions can be reduced to a minimum by repositioning aerial or by installing a new one suited for your area.

"INTERFERENCE"
Interference may be caused by electrical appliances, car ignition systems, etc. This should normally be a temporary condition, but should this interference persist, contact your dealer.

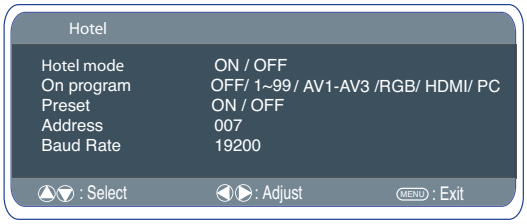
Hotel Mode

This LCD monitor set allows you to set up the following:

SETTING PROCEDURE:

1 . Press and hold the **green button** on the Remote control handset and then press the **P▲ button** on the Monitor for 5 seconds.

2. Use the **P▲** or **P▼ button** to highlight **Hotel Mode**, use the ◢+ to switch ON or OFF.



3. Select ON program using the **P▼** button, select the start up position using the ◢+ or ◢− buttons.
(AV2 - AV1 - 0 - 1 - 2 - 3 - 4 .....99)

4. Press the **MENU button** to exit from the menu.

c UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

HDMI / COMPONENT SIGNAL SUPPORT TIMING LIST

HDMI signal support timing

Description	Format Timing	Aspect ratio	Vertical Freq (Hz)	Where defined	Remark
60Hz Formats					
VGA	*640x480p*	*4:3*	*59.94/60*	*861*	*Default format*
480p	*720x480p*	*4:3*	*59.94/60*	*861*	*EDTV*
480p	*720x480p*	*16:9*	*59.94/60*	*861*	*EDTV*
720p	*1280x720p*	*16:9*	*59.94/60*	*861*	*HDTV*
1080i	*1920x1080i*	*16:9*	*59.94/60*	*861*	*HDTV*
480i	*720(1440)x480i*	*4:3*	*59.94/60*	*861 optional*	*Double clock for 720x480i*
480i	*720(1440)x480i*	*16:9*	*59.94/60*	*861 optional*	*Double clock for 720x480i*
50Hz Formats					
576p	*720x576p*	*4:3*	*50*	*861A*	*EDTV*
576p	*720x576p*	*16:9*	*50*	*861A*	*EDTV*
720p	*1280x720p*	*16:9*	*50*	*861A*	*HDTV*
1080i	*1920x1080i*	*16:9*	*50*	*861A*	*HDTV*
576i	*720(1440)x576i*	*4:3*	*50*	*861A optional*	*Double clock for 720x576i*
576i	*720(1440)x576i*	*16:9*	*50*	*861A optional*	*Double clock for 720x576i*

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Remark
720_400	31.47	70.09	DOS(VGA)
640_480	31.50	60.00	DOS(VGA VESA 60Hz)
640_480	37.50	75.00	VGA VESA 75Hz
640_480	37.86	72.81	VGA VESA 70Hz
640_480	37.86	74.38	VGA
640_480	35.00	67.00	Mac.
640_480	34.97	66.60	Mac LC 13"
800_600	35.16	56.25	SVGA VESA 56Hz
800_600	37.90	60.32	SVGA VESA 60Hz
800_600	46.90	75.00	SVGA VESA 75Hz
800_600	32.70	51.09	SVGA
800_600	34.50	55.38	SVGA
800_600	37.90	61.03	SVGA
800_600	38.00	60.51	SVGA
800_600	38.60	60.31	SVGA
832_624	49.00	74.00	Mac.
1024_768	48.40	60.00	XGA VESA 60Hz
1024_768	56.50	70.00	XGA VESA 70Hz
1024_768	60.000	75.00	XGA VESA 75Hz
1024_768	44.00	54.58	XGA
1024_768	46.90	58.20	XGA
1024_768	47.00	58.30	XGA
1024_768	48.50	60.02	XGA
1024_768	58.03	72.00	XGA
1024_768	60.31	74.92	XGA
1024_768	61.00	75.70	XGA
1024_768	60.24	75.08	MAC_Normal 19"
1280_960	60.00	60.00	SXGA VESA 60Hz
1280_1024	79.976	75.025	SXGA VESA 75Hz
1280_1024	62.50	58.60	SXGA
1280_1024	63.370	60.01	SXGA
1280_1024	63.34	59.98	SXGA
1280_1024	63.74	60.01	SXGA
1280_1024	63.79	60.18	SXGA
1280_1024	63.90	60.00	SXGA
1280_1024	71.69	67.19	SXGA
1280_1024	76.97	72.00	SXGA
1280_1024	81.13	76.107	SXGA
1152_864	64.20	70.40	SXGA
1152_900	61.20	65.20	SXGA
1152_900	61.85	66.00	SXGA
1152_900	71.40	75.60	SXGA
1152_870	68.68	75.06	MAC_Normal 21"
1280_960	75.00	75.08	Mac.
1280_1024	80.00	75.00	Mac_.
1600_1200	75.00	60.00	UXGA VESA 60Hz
1366_768	48.36	60.00	WXGA
1360_768	47.70	60.00	WXGA

Component signal support timing

Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)	Dot Clock Frequency(Mhz)	Remark
720x480	15.735	60i	12.27	SDTV 480i
720x576	15.625	50i	13.50	SDTV 576i
720x480	31.25	60p	27	SDTV 480p
720x576	31.25	50p	27	HDTV 576p
1280x720	45.00	60p	74.25	HDTV 720p
1280x720	37.50	50p	74.25	HDTV 720p
1920x1080	33.75	60i	74.25	HDTV 1080i
1920x1080	28.13	50i	74.25	HDTV 1080i
1920x1080	31.25	50i	74.25	HDTV 1152i

FunctionalExecutionCommandTable

Command	Item	Comment
C00	POWER ON	
C01	POWER OFF	
C23	Wide “Auto” direct	
C24	Wide “Natural” direct	
C25	Wide “Zoom 16:9” direct	
C26	Wide “Title in 16:9” direct	
C27	Wide “Zoom 14:9” direct	
C28	Wide “Title in 14:9” direct	
C29	Wide “Full” direct	
C0F	Wide “Normal” direct	
C30	Picture	Toggle (Dynamic, Standard, Eco, Personal)
C70	AV1 direct	
C71	RGB direct	
C72	AV2 RGBHV direct	
C73	AV2 YPbPr direct	
C74	AV3 direct	
C75	HDMI direct	
C76	PC direct	
C64	PC Auto adjust	
C92	Factory settings	
CF DPMS ON	Power save ON	
CF DPMS OFF	Power save OFF	
CF CLOK ON	Child lock ON	
CF CLOK OFF	Child lock OFF	
CF DEA RMCY	RC inhibition OFF	
CF DEA RMCN	RC inhibition ON	

“———“ _means “No Function”.

Status Read Command Table

Command	Item	Note
CR0	Power	On , Standby , power error,…
CR1	Input Mode	AV1, AV2, ..., HDMI, PC
CR WIDE	Wide mode	Auto, Normal, Full, …
CR PICTURE	Picture mode	Dynamic, Standard, …
CR SIGNAL	Signal existence	Signal / No signal
CR CHILD	Child lock	On / Off
CR DPMS	DPMS	On / Off
C**	Panel operating time	

“———“_means “No Function”